



YOUR FUTURE IS AMERICA'S FUTURE



Army Educational Outreach Program

Welcome to the Army Educational Outreach Program (AEOP). The United States Army has long recognized that a scientifically and technologically literate citizenry is our nation's best hope for a secure, rewarding and successful future. For over 50 years, the Army has supported a wide range of educational opportunities in Science, mathematics, engineering and technology for our youth and their teachers.

Our nation's economy has greatly benefited from the technological achievements of the last century and is destined for greater achievements throughout the 21st century. Science, mathematics, engineering and technology will continue to play a dominant role in all aspects of everyday life in the 21st century. For this reason, the Army has created the AEOP, which greatly expands and integrates an array of Army educational opportunities for the future generations of America's workforce and their teachers.

The AEOP is comprised of Army-sponsored research, education, competitions, internships and practical experiences designed to engage and guide students and teachers in science, mathematics, engineering and technology. From kindergarten through graduate school, students of all proficiency levels, interests, and ethnic, economic and academic backgrounds are encouraged to participate in real world experiences involving these important disciplines. Programs involve interactive activities and knowledgeable mentors to introduce students to these areas. Events include school visits, neighborhood activities and community science fairs. Engineers, scientists, mathematicians and technology experts, who act as mentors and guides, introduce students to various levels of research and engineering and provide advice on career opportunities and training.

In AEOP, high-school students can choose from a wide range of educational challenges such as the Junior Science and Humanities Symposium or the International Mathematics Olympiad. For those in grades 6-9 who prefer cyberspace, eCYBERMISSION is an inclusive web-based science, mathematics and technology competition with significant monetary awards for small teams of students who are interested in open-ended challenges that are relevant and linked to their community. GEMS, SEAP, UNITE, ISEP and REAP provide hands-on internships to pre-college students, each program tailored to a different age and interest. Materials World Modules enables students and teachers from middle to high school to experience science through the process of self-discovery. AEOP programs are also available for college undergraduate and graduate students that include extensive scholarship opportunities available at numerous institutions across the country.

The Army invites parents, students and teachers in communities across America to become familiar with AEOP. Taking advantage of its numerous educational opportunities available in science, mathematics, engineering and technology will ensure that America will continue to maintain its technological leadership in a globally competitive world. For additional information, applications and deadlines, visit www.usAeop.com.

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AEOP Programs

K-5

- **National Science Center Live! –**
Uses video and teleconferencing to enhance the quality of science and mathematics education in grades K-12.

6-12

- **Gains in the Education of Mathematics & Science (GEMS) –** Students in 8th to 12th grade intern for one to four weeks in an Army laboratory and learn technical skills. Advanced courses in subsequent years build upon prior experience.
- **eCYBERMISSION –** Web-based science, math, and technology competition for 6th-9th grade students nationwide.
- **Science & Engineering Apprentice Program (SEAP) –** Highly competitive, academically advanced, challenging summer internships that provide opportunities for dedicated high school students pursuing advanced studies.
- **Research & Engineering Apprentice Program (REAP) –** Provides students a challenging scientific experience not readily available in high school.
- **Materials World Modules (MWM) –** Encourages classroom students and teachers to apply science and math to real world applications.
- **Uninitiates Introduction to Engineering (UNITE) –** Provides socially and economically disadvantaged high school students academic courses on college campuses.
- **Junior Science & Humanities Symposium (JSHS) –** Annual high school science competition encouraging oral presentation skills and ethical conduct of original research.

- **International Mathematical Olympiad (IMO) –** The Army sponsors a team to represent the United States at the IMO, competing with teams from other countries.
- **Internships Science & Engineering Program (ISEP) –** Assists the Construction Engineering Research Laboratory (CERL) researchers on projects during the summer prior to senior year in high school. All students are required to give a formal presentation of their research.

College Level Programs

- **Women in Science Project (WISP) –** Created at Dartmouth College to encourage interested women to stay in mathematics, science, and engineering.
- **Science & Technology Academic Recognition System (STARS) –** Internships for qualified undergraduates and fellowships/employment to graduate students at the Army Research Laboratory.
- **Career Related Experience in Science & Technology (CREST) –** Provides summer and/or part time employment to students for appointment to civilian engineer or scientist positions in the Army Intern Program.
- **College Qualified Leaders (CQL) –** Paid internships for undergraduates seeking experience in medical research.
- **Consortium of Universities of the Washington Metropolitan Area (CUWMA) –** Places graduate students as Consortium research fellows and junior and senior undergraduate students as Consortium research assistants in Army laboratories.

For additional information, applications and deadlines, visit

WWW.USAEOP.COM